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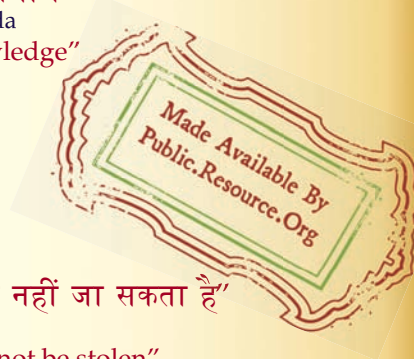
IS 9882-1 (1981): Sealing Rubber for Covers for Cargo Hatches, Part I: Dry Cargo Hatches [TED 18: Inland, Harbour Crafts and Fishing Vessels]



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Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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IS : 9882 (Part I) - 1981

Indian Standard

(Reaffirmed 2003)

**SPECIFICATION FOR
SEALING RUBBER FOR COVERS
FOR CARGO HATCHES
PART I DRY CARGO HATCHES**

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SPECIFICATION FOR SEALING RUBBER FOR COVERS FOR CARGO HATCHES

PART I DRY CARGO HATCHES

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Indian Standard
**SPECIFICATION FOR
SEALING RUBBER FOR COVERS
FOR CARGO HATCHES
PART I DRY CARGO HATCHES**

0. FOREWORD

0.1 This Indian Standard (Part I) was adopted by the Indian Standards Institution on 31 July 1981, after the draft finalized by the Inland and Harbour Craft Sectional Committee had been approved by the Marine, Cargo Movement and Packaging Division Council.

0.2 This standard is intended to promote the production of reliable sealing rubber for covers of cargo hatches.

0.3 The packing is intended to insure water- and weathertightness in rectilinear sections along the perimeter and in joints between adjacent panels of cargo hatch covers (*see* IS : 7048-1973*).

0.4 Part II of this standard shall cover sealing rubber for covers for oil barge hatches.

0.5 Requirements and testing for water- and weathertightness of cargo hatch covers are covered in IS : 7048-1973*.

0.6 This standard is based on ISO 4089-1979(E) ' Shipbuilding inland navigation — Sealing rubber for covers of cargo hatches ', issued by the International Organization for Standardization (ISO).

1. SCOPE

1.1 This standard (Part I) specifies the type, principal dimensions and requirements for the sealing rubber for covers of cargo hatches of various types of inland vessels.

1.2 This standard does not apply to special rubber packings intended to create heat-insulating labyrinths.

*Specification for small steel square weathertight hatch covers.

2. TYPE AND DIMENSIONS

2.1 Rectangular sealing rubber shall correspond to the dimensions given in Table 1.

TABLE 1 TYPES AND DIMENSIONS OF PACKINGS

All dimensions in millimetres.

DIMENSIONAL TYPE	DIMENSIONS OF PACKINGS
	$h \times w$
1	42×30
2	42×67
3	42×87
4	42×107
5	32×67

NOTE — h = height, and
 w = width.

2.2 The packing groove may have either a rectangular or a trapezoidal section.

3. REQUIREMENTS

3.1 The sealing rubber shall recover its original shape after compression of 8 ± 2 mm by a packing rim (a strip of thickness up to 20 mm or a bar of diameter up to 30 mm) for 1 month.

3.1.1 The value of the residual deformation shall be minimum and shall not impair the tightness of the sealing rubber.

3.2 The sealing rubber shall ensure weather- and watertightness without losing its physical and mechanical properties as given in IS : 3400 (Part I to XX)-1977* within the temperature range from -30 to $+77^{\circ}\text{C}$.

3.3 The sealing rubber shall be oil resistant.

3.4 The sealing rubber working areas and the areas which are exposed to the influence of the external surroundings shall be resistant to both sunlight and ozone when determined in accordance with IS : 3400 (Part XX)-1977†.

3.5 The grade of rubber used shall permit reliable glueing, vulcanization or other methods of connecting the separate elements of the packing to one another and their fixation in the grooves of the sections of a hatch cover.

*Methods of test for vulcanized rubbers.

†Methods of test for vulcanized rubbers: Part XX Resistance to ozone.